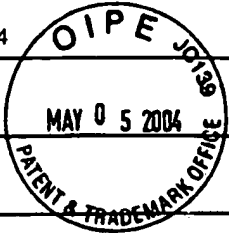


Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. P23683		Serial No. 10/646,824	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)						Applicant Hiroshi NOMURA			
						Filing Date August 25, 2003		Group 2872	



U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	2004	/0	0	4	2	0	9	5	03/04/04	NOMURA			
	2004	/0	0	4	2	0	9	3	03/04/04	NOMURA			
	2004	/0	0	6	2	5	3	6	04/01/04	NOMURA			
	2004	/0	0	5	1	9	6	8	03/18/04	NOMURA			
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		6	1	1	5	1	9	0	09/05/00	HIRAI			
		6	0	6	4	5	3	3	05/16/00	KENIN et al.			
	2003	/0	0	8	1	3	2	5	05/01/03	NOMURA et al.			
	2001	/0	0	2	4	5	7	3	09/27/01	NOMURA et al.			
	2002	/0	1	3	5	9	0	0	09/26/02	NOMURA et al.			
		6	0	7	5	6	5	5	06/13/00	FUNAHASHI			

EXAMINER	DATE CONSIDERED 9/15/04
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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	YEAR	/ 0	DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2002	/ 0	1	3	5	9	0	1	09/26/02	NOMURA et al.			
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	2002	/ 0	1	3	5	8	9	6	09/26/03	NOMURA et al.			
		6	0	5	5	1	1	6	04/25/00	NOMURA et al.			
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	2003	/ 0	0	8	1	9	4	8	05/01/03	NOMURA et al.			
	2001	/ 0	0	1	9	4	5	8	09/06/01	NOMURA et al.			
		4	9	9	3	8	1	5	02/19/91	YAMAZAKI et al.			
		5	8	1	8	6	4	7	10/06/98	NISHIO et al.			
		5	7	3	1	9	1	3	03/24/98	IMANARI			
		5	7	3	9	9	6	2	04/14/98	ASAKURA et al.			
	2003	/ 0	1	5	6	8	3	2	08/21/03	NOMURA et al.			
		5	5	8	7	7	5	4	12/24/96	KATAYAMA et al.			
		6	0	5	2	5	3	5	04/18/00	UNO			
		5	2	2	3	8	7	3	06/29/93	TSUBOI			
	5	0	8	6	3	1	2	02/04/92	TANAKA et al.				
	5	4	9	9	1	4	3	03/12/96	SAKAMOTO et al.				
	6	0	6	9	7	4	5	05/30/00	FUJII et al.				
	6	3	2	4	0	1	9	11/27/01	TAKANASHI et al.				
	5	4	8	5	3	1	5	01/16/96	NOMURA et al.				
EXAMINER										DATE CONSIDERED <u>9/15/04</u>			

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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	

FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
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	2	3	4	4	6	6	1	06/14/00	UNITED KINGDOM					
	2	2	6	2	3	5	6	06/16/93	UNITED KINGDOM					
	2	2	0	7	7	0	9	07/25/03	JAPAN					
	2	3	0	9	5	5	1	07/30/97	UNITED KINGDOM					
2002	2	3	4	4	6	6	2	06/14/00	UNITED KINGDOM					
	2	2	6	1	2	9	8	05/12/93	UNITED KINGDOM					
	10	-	2	7	7	7	1	09/25/02	JAPAN					
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7	10	-	3	2	7	4	0	02/03/98	JAPAN				X	
	7	-	2	8	8	7	2	4	10/31/95	JAPAN				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	1	English Language Abstract of JP 58-10708.
	2	English Language Abstract of JP 2003-207709.
	3	English Language Abstract of JP 2002-277719.
	4	English Language Abstract of JP 10-282394.
	5	English Language Abstract of JP 58-162914.

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